MISSOURI DEPARTMENT OF NATURAL RESOURCES
ENERGY CENTER – ENERGY REVOLVING FUND

LIGHTING FIXTURE UPGRADE/MOTION SENSOR WORKSHEET

BUILDING	LOCATION	DATE

To estimate the savings when more efficient lighting is installed, the following information must be known:

The number of old fixtures being changed.

The wattage of each old fixture.

The number of hours of use per year in the past.

The number of new fixtures being installed.

The wattage of each new fixture.

The number of hours of use per year in the future.

The cost per kilowatt hour of electricity.

SAVINGS CALCULATIONS

1. Enter the number of old fixtures being changed . . . . . _____
2. Enter the wattage of each old fixture . . . . . _____
3. Enter the hours of use per year in the past . . . . . _____
4. Enter the cost per kilowatt hour of electricity . . . . . _____
5. Multiply line 1 by line 2 by line 3 by line 4 and divide by 1000 . . . . . .(Present annual cost of lighting) . . . . . $ _____/year
6. Enter the number of new fixtures being installed . . . . . _____
7. Enter the wattage of each new fixture . . . . . _____
8. Enter the new hours of use per year in the future . . . . . _____
9. Enter the cost per kilowatt hour of electricity . . . . . _____
10. Multiply line 6 by line 7 by line 8 by line 9 and divide by 1000 . . . . . (Future annual cost of lighting) . . . . . $ _____/year

ANNUAL SAVINGS

11. Subtract line 10 from line 5 . . . . . $ _____/year

PROJECT COST

12. Enter the total cost to modify the lighting including material, labor and design . . . . . $ _____

SIMPLE PAYBACK

13. Divide line 12 by line 11 . . . . . _____ years

DESCRIPTION PAGE

Lighting Fixture Upgrade/Motion Sensor Energy - Conservation Measure

Describe the existing system and the proposed energy-conservation measure (use additional sheets if necessary):